

CLAIMS

What is claimed is:

1. A creep resistant, castable magnesium alloy comprising, by weight:
between about 3% and about 10% aluminum;
between about 0.5% and about 2.5% calcium;
up to about 1.5% silicon;
up to about 0.7% zinc;
the balance being magnesium, except for impurities commonly found in magnesium alloys.
2. The alloy of claim 1 further comprising up to about 1% by weight tin.
3. The alloy of claim 1 further comprising up to about 2.0% by weight of rare earth metals.
4. The alloy of claim 1 wherein the weight percentage of aluminum is between about 4.5% and about 5.5%.
5. The alloy of claim 1 wherein the weight percentage of aluminum is about 5%.

6. The alloy of claim 1 wherein the weight percentage of calcium is between about 1.5% and about 2.5%.

7. The alloy of claim 1 wherein the weight percentage of calcium is about 2%.

8. The alloy of claim 1 wherein the weight percentage of silicon is between about 0.3% and about 0.7%.

9. The alloy of claim 1 wherein the weight percentage of silicon is about 0.7%.